

Claims

1. A method for connecting a vessel to another vessel comprising:
obtaining a graft vessel device comprising a graft vessel, an anastomosis device attached to a first end of the graft vessel and a stent attached to a second end of the graft vessel,
anastomosing the first end of the graft vessel to a side of a first vessel via the anastomosis device to yield an end-to-side anastomosis, and
anastomosing the second end of the graft vessel to a second vessel via the stent to yield an end-to-end anastomosis.
2. The method of claim 1, wherein the anastomosis device comprises two rings.
3. The method of claim 1, wherein the anastomosis device comprises a first anastomosis ring adapted to cooperate with a second anastomosis ring.
4. The method of claim 1, wherein the stent is fixedly attached to the exterior surface of the graft vessel at the second end.
5. The method of claim 1, wherein the second end of the graft vessel is attached to the second vessel by inserting the second end of the graft vessel into the lumen of the second vessel.

6. The method of claim 1, wherein the second end of the graft vessel is attached to the second vessel by inserting the second end of the graft vessel into the lumen of the second vessel via at least one tear-away sheath.

7. The method of claim 1, wherein the second end of the graft vessel is attached to the second vessel by inserting the second end of the graft vessel into the lumen of the second vessel and then allowing the stent to unfold.

8. The method of claim 1, wherein the second end of the graft vessel is attached to the second vessel by inserting the second end of the graft vessel into the lumen of the second vessel and then allowing the expand.

9. The method of claim 1, wherein the first end of the graft vessel is attached to the first vessel and then the second end of the graft vessel is attached to the second vessel.

10. The method of claim 1, further comprising loading the graft vessel device into a tubular housing of an operator used to attach the first end of the graft vessel to the side of the first vessel in cooperation with the anastomosis device to yield the end-to-side anastomosis.

11. The method of claim 1, further comprising:
loading the graft vessel device into a tubular housing of an operator used to attach the first end of the graft vessel to the side of the first vessel in cooperation with the anastomosis device to yield the end-to-side anastomosis, and

removing the graft vessel device from the tubular housing of the operator to attach the second end of the graft vessel to the second vessel to yield the end-to-end anastomosis.

12. A graft vessel device comprising:

a graft vessel;

an anastomosis device attached to a first end of the graft vessel,

wherein the anastomosis device is configured to facilitate end-to-side anastomosis of the graft vessel device to a side of a first vessel; and

a stent attached to a second end of the graft vessel.

13. A graft vessel device of claim 12, wherein the stent is configured to facilitate anastomosis of the second end of the graft vessel to a second vessel to yield an end-to-end anastomosis.

14. A graft vessel device of claim 12, wherein the stent is attached to the exterior surface of the graft vessel at the second end of the graft vessel device.

15. The graft vessel device of claim 12, wherein the stent is sutured to the graft vessel at the first end of the graft vessel device.

16. The graft vessel device of claim 12, wherein the stent is fixedly attached to the graft vessel with an adhesive.

17. The graft vessel device of claim 12, wherein the stent is fixedly attached to the graft vessel with a polymeric substance.

18. The graft vessel device of claim 12, wherein the stent is fixedly attached to the graft vessel with polyurethane.

19. A graft vessel device comprising:

a graft vessel having a first end opposite from a second end;

an anastomosis ring attached to the first end of the graft vessel,

wherein the anastomosis ring is configured to facilitate end-to-side anastomosis of the graft vessel device to a first vessel via cooperation with another anastomosis ring; and

a stent attached to the second end of the graft vessel.

20. A graft vessel device of claim 19, wherein the stent is configured to facilitate anastomosis of the second end of the graft vessel to a second vessel to yield an end-to-end anastomosis.

21. The graft vessel device of claim 19, wherein the stent is attached to the exterior surface of the graft vessel at the first end of the graft vessel device.

22. The graft vessel device of claim 19, wherein the stent is sutured to the graft vessel at the first end of the graft vessel device.

23. The graft vessel device of claim 19, wherein the stent is fixedly attached to the graft vessel with an adhesive.

24. The graft vessel device of claim 19, wherein the stent is fixedly attached to the graft vessel with a polymeric substance.

25. The graft vessel device of claim 19, wherein the stent is fixedly attached to the graft vessel with polyurethane.